

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: philip mccooy <dgnoval@erols.com>
Subject: (no subject)
Message-ID: <199608161239.IAA27326@smtp2.erols.com>

John Russo asked the questions below about the BC-603:

>I recently aquired two BC-603 receivers, an "A" and "D" model from
>a local AWA meet, and I have a few quick questions about them.

> Four questions for the experts,

> 1. Were these units originally FM receivers, converted to AM ??

They were originally on FM. I think the deviation was wide maybe
about 40 kc. I remember the 1950s most hams converted them to
AM.

> 2. Were these units designed for tank only service ??

Taken from TM 11-227:

The BC-603 was part of the SCR-528, which was issued to the
Engrs; Field Artillery, Med Dept; QMC; Armd F; intermediate
command tanks and vehicles of armored force, GHQ, corps and
divisions

> 4. What is the matching transmitter, was it phone only ??

The matching transmitter is the BC-604, which was phone only

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: Merv Schweigert <k9fd@htc.net>
Subject: 4-1000a
Message-ID: <9608160131.AA08883@ns.htc.net>

In response to some of the recent postings on the 4-1000 used in
"grounded grid", Barry WA4VZQ had a very good response as well as others.
I have used the 4-1000 and 4pr1000 tubes in gg service for over
20 years and have yet to find a better value for your dollar. They are
inexpensive in the surplus market compared to 8877 or other ceramic tubes,

and are extremely rugged.

Many comments are made about the tube being "dirty" and poor in linear service, but if you compare it to the 8877 the 3rd order is only about 2 db poorer. Also compare the efficiency to the 8877, the 8877 to run full bore output is dissipating 1500 watts plate power while the 4-1000 is only over 900 plate dissipation for the same or more output. Yes it does require more drive, but where can you get a tube that will allow you to transmit into the grid with the plate voltage off by mistake and still come back with full output ? (i have done it accidentally so I know hi hi). I guess I am a real hard nosed fan of the tube and have overcome the problems most people seem to have with them.

I run 5000 volts on the plate, tuned input, the grids are grounded through capacitors in parallel and small value of resistors to ground. I use no parasitic suppressor in the plate, but use a small inductance wound of nr. 12 wire instead. The amps are stable 160 through 10, using vacuum variable in the plate at min capacity output on 10 meters is the same as on 80. Shorting type bandswitch is an absolute must to do 160 to 10 without lots of fire jumping around. To top it all off, my amps are built in 12x12x12 boxes, external blower and power supply of course. Running a 4-1000 with 200 watts of drive will get you better than 2.5kw output. Throttle it back and with about 115 watts drive I get 1.5kw out. Plenty of reserve to run rtty all day long.

After all this is a firebottle list, and what better tube than a 4x1 to make a firebottle amp. The guy on the other end cannot tell a 5000 dollar s9 signal from an Alpha from your 200 dollar s9 4-1000a.

73 Merv K9FD

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*****
* Merv Schweigert           Key Collector, Paddles, Bugs, Straight Keys *
* 9694 S. Prairie Road                      *
* Red Bud, Ill 62278           Looking for Keys and code/telegraph Items.. *
* 618-282-3953 Voice                      *
* 618-939-FAXX Fax           Appreciate any calls or leads..... *
* k9fd@htc.net E-mail                      *
*                               K9FD Know Code                      *
*****
```

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: 75A4 encounter of 3rd kind?
Message-ID: <Pine.GS0.3.93.960816102850.16395A-1000000@iglou>

When using the 500hz filter on this A4, on strong cw signals, if I tune off to one side of the signal, I can hear what sounds like a duplicate of the original signal. It is especially noticable while monitoring my own keying. A friend told me this is know as 3rd order distortion and his A4 did the same thing 30 years ago.

Has anyone got a better understanding of this and are there any mods to correct it? Could it perhaps be misaligned?

Also, I notice a little "blow by" when using this filter. It shows up on the oppsite side band as a very weak but readable signal. Is this typical?

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: pmills@cyberhouse.com (Phil Mills)
Subject: 902A scope tube WTB
Message-ID: <199608161425.JAA15474@ns.cyberhouse.com>

I'm working on a panadaptor and the scope tube is tired. AES is out-of-stock on this one. Does anyone have one to sell or know of another source?

thanks,
Phil
Phil Mills, AB5TH
pmills@cyberhouse.com
713-992-5762
Friendswood, TX (just south of Houston)

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: Andy Wallace <wallace@mc.com>
Subject: antenna-less regens (Knight Ocean Hopper)
Message-ID: <9608161146.AA03412@taku>

A longtime SW DXer friend of mine recently bought something he had in his youth -- a Knight Ocean Hopper. It hummed pretty badly, and he asked me to fix it...

Well, someone had been there before me. Two of the three electrolytics had been replaced with modern types, but someone had subbed an ancient wax paper 30 uF one for the last. I replaced that with a modern one and also tie-wrapped a fuseholder in for safety.

The set now hums a little, but not much. It's not noticeable unless you don't have a station tuned in. Perhaps this is normal for the set. (Reversing the plug did make a difference.)

This set had the full set of coils but I only had a chance to try out three of them. I was tuning around on the broadcast band coil after I had buttoned the thing up last night. The sensitivity and (when properly adjusted) selectivity is amazing. Without half trying I had very loud signals from all over. But there was a local station bleeding through everywhere -- so I disconnected the antenna.

On no antenna, just the non-shielding wooden cabinet, I was getting WTOP from Washington DC before sunset. This from Massachusetts. I also copied some 2- and 3-land SSB stations on 160, as well as the W1AW bulletin.

Not bad at all! Now I believe the claims in the Oscillodyne* article about reception with no antenna.

The Ocean Hopper didn't seem spectacular on the shortwave frequencies, though.

73,
--Andy
wallace@mc.com

* this was in the Lindsay reprint of Gernsback's OFFICIAL 1934 SHORT WAVE RADIO MANUAL, available from Lindsay or from Antique Electronic Supply in AZ...a good read!

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Terry Burge <terrybu@netman.ENS.TEK.COM>
Subject: any feeling pro/con on Henry 2K-Classic
Message-ID: <9608161914.AA19843@netman.ENS.TEK.COM>

Gang,

Tomarrow I'm going to be looking at what is suppose to be a very nice Henry 2K-Classic console model 80-10Mtr amp. This is best I can tell the later version of the 2K4 amp. I have owned both a 2K3 and 2KD5 and had very good luck with them. I'm looking for something that is going to last me for many years and have tubes (3-500Z's in this case) that aren't hard to find or too expensive. Anyone know of problems with this model or things to lookout for?

Having been known to get serious about CQWWDX contest and a few others I want something that will standup to hours on end of activity. And need I say a mistuned antenna or two.

I already have an MLA2500B Dentron and if anyone has checked

the price of 8875's lately they'll know what I mean about wanting tubes that are readily available and not too expensive. Also, the Dentron while having great power output is not what I would call as reliable as a Henry or Alpha.

Terry

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Peter Ferrand <petef@sprynet.com>
Subject: Re: any feeling pro/con on Henry 2K-Classic
Message-ID: <2.2.32.19960816205620.00759270@m3.sprynet.com>

At 02:16 PM 8/16/96 -0500, Terry Burge wrote:

>Gang,

> Tomorrow I'm going to be looking at what is suppose to be a
>very nice Henry 2K-Classic console model 80-10Mtr amp.

..

>Anyone know of problems
>with this model or things to lookout for?

I've had a 2K Classic X (large transformer) (export model) for some years now and I do like it very much. I do no contesting, but I have used for AM linear operation as well as SSB, and it's given any problems related to power. Got the original tubes still in it, so I complain about tube life either. Mine requires 220 V so make sure that's OK with your installation.

I've had two annoying problems: arcing over the SSB/CW switch, which was solved with a liberal daubing of automotive silicone spark plug type grease.

Second problem's worse, and that was one of the T/R relays fried. It's a little plastic box plug-in type about 1" cube and just can't take voltage (note I said no problems related to power above). Voltage is a different matter. Those contacts are just too close together for a high power linear. I replaced it with a standard open-frame relay but it took some head-scratching to make it fit mechanically. I understand current production uses a far improved Japanese relay but this is a 1984 vintage rig. So a mistuned antenna might cause your rig the same difficulty.

The Henry is damnnall hard to work on, as there's a lot of nuts that have to be fished with since they didn't use captive nuts. And once you get the RF deck out, you can't power it up, since it has to sit on the pedestal to get air and power. Real service, other than changing fried parts, would be tough.

Still the chance to have a linear with conservatively desgined power supply components and proper air-system cooling for the tubes is worth it. Every set has its weak points. Operation is simple and stable.

Hope this helps

-Pete
WB2QLL
petef@sprynet.com

"I wouldn't want to be married to Nancy Reagan"
-Ed Rollins

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: KA9EGW@aol.com
Subject: BAs for sale
Message-ID: <960816143530_261319120@emout17.mail.aol.com>

Don't wanna do it, but an emergency need for funds here forces the sale of the following:

- 1) Allied A2516 80-10m rx--Allied's little wannabe 75S3. Absolutely mint pristine
with original manual, dust cover, 110/220V selector warning card, and line cord clip. This one's a 10.
- 2) R390 with meters. Lights up and plays--dunno what all it needs. About a 4 on cosmetics--heavy paint wear around knobs etc. Collins contract 14214-PH-51-93
s/n 1820.
- 3) R390A less meters. Fair Radio "checked" condition. About a 7 cosmetically--
panel is dirty and some knobs have chips in paint. Collins contract 8719-PH-55
s/n 4214.
- 4) Johnson Viking 2. Looks rough, lights up, puts out over 100W, works, needs
cleanup both cosmetic and electric. Includes parts rig.
- 5) Half-a dozen BC221's ranging from 9 to 4 on a scale of 10.
- 6) Power supply, Harrison Labs 814A, 0-36V 0-50A. Very heavy.
- 7) Amplifier, HP/Boonton 230A. Dirty outside and has some sticky labels, inside is
very clean and untarnished and works. Tunable 10-500 mc w/3 2C39's.
- 8) RME VHF152A. Cosmetically intact, dusty, condition unknown, appears complete.
- 9) Old radar p/s, weighs about 250 lbs.
- 10) Homebrew p/s for 2-811's HB amp.
- 11) HB 2-811's rack-mount amp.

- 12) Meissner Signal Drifter, appears intact, ok panel, rusty cabinet.
- 13) SB200, 8 cosmetically, new tubes, wired for 110 w/"N" output connector.
- 14) RF Power Concepts legal-limit roller coil "T" network feedline matching network in pseudo-S-Line cabinet. Clean and working (but I like my Matchbox better).

Prefer to sell as lot and local pickup as circumstances in my life don't leave me time to dick around with packing and shipping and etc (there's some real heavy-duty emergency-crisis-type stuff happening here). All items are best offer by 9/15/96.

E-mail KA9EGW@aol.com. Thank you for your help in these trying times.

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Peter Ferrand <petef@sprynet.com>
Subject: Re: BAs for sale
Message-ID: <2.2.32.19960816204216.0075075c@m3.sprynet.com>

At 01:38 PM 8/16/96 -0500, KA9EGW@aol.com wrote:

>Don't wanna do it, but an emergency need for funds here forces the sale of
>the following:

<snip..buncha goodies>

>Prefer to sell as lot and local pickup as circumstances in my life don't
>leave me time to dick around with packing and shipping and etc (there's some
>real heavy-duty emergency-crisis-type stuff happening here). All items are
>best offer by 9/15/96.

>E-mail KA9EGW@aol.com. Thank you for your help in these trying times.

..If we're going to have to pick it up, please tell us *where* these items will have to be picked up from...

73,
-Pete
WB2QLL
petef@sprynet.com

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: KA9EGW@aol.com
Subject: Re: BAs for sale--location
Message-ID: <960816175811_180726790@emout13.mail.aol.com>

50 miles northwest of Chicago.

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: n5off@w5ddl.aara.org

Subject: BC-348 Tag FS, Canadian
Message-ID: <442099@w5ddl.aara.org>

I have the above FS for \$10. It is from a Canadian military BC-348 and reads:

DEPT OF NATL DEFENCE-CANADA

RECEIVER RADIO
PT NO BC 348 SER 1856
STK NO 5821-21-818-6394

This tage is smaller than a standard 348 tag, has no holes in it, and is intended to be glued on the set.

I removed it from mine, and it is in good shape. It is 1969 vintage.

I'd like someone who needs it for their set to get it.

73 de tom

Reply to:
packet n5off@k5arh.#lft.la.usa.noam
Email (home) n5off%w5ddl.aara.org@usl.edu
Lafayette, LA
office 318-989-3430
home 318-984-2561

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: "ROBERT W DOWNS, WA5CAB" <103012.2130@CompuServe.COM>
Subject: CANNON FK & GK HARDWARE
Message-ID: <960816125647_103012.2130_GHU53-3@CompuServe.COM>

My source of metal hardware to assemble U-7 & U-9 for the AN/ART-13 seems to be drying up. If anyone has any Cannon FK-??? plugs in their junk box that they don't need, please let me know. Useable back shell sizes are 9/16" and 5/8", either straight or right angle.

For U-10 (the dynamotor 28VDC plug), I need GK right angle backshells in 1/2" or 5/8". I would also take straight 5/8", and straight or right angle backshells threaded for conduit, for repairing/making TCS cables.

The inserts and metal hardware have been costing me right at \$30.00, my asking price. Nothing can be done about the insert cost (unless someone has a good NC mill they want to give away :-)) but if I can get the metal cheaper, I'll sell the plugs cheaper.

73, Robert W. Downs, WA5CAB
103012.2130@compuserve.com

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: Cathode Driven Operation - also 4-1000's
Message-ID: <Pine.ULT.3.91.960815192801.23455C-1000000@dua150.kpt.emn.com>

On Wed, 14 Aug 1996, Bob Witmer asked about "grounded-grid" operation.

> I remember a "few" years back seeing several articles - might have been QST -
> that talked about the operation of tetrodes as triodes in grounded-grid
> service. Seems like I remember one article where the screen was tied
> directly to the grid and one where the grid and screen were kept at separate
> operating potentials - it all depended on the characteristics of the tube.

A number of people have responded but none have really referenced the articles Bob refers to. The problem is that the term "grounded grid" is very misleading and really should not be used. The correct term is "cathode driven" operation. The grid(s) may or may not have DC bias on them, but they are bypassed and should be close to ground for RF. In semiconductor circuits, the confusion is avoided when the terms common-emitter, common-base, and common-collector are used. In vacuum tube circuitry, the preferred nomenclature is grid-driven, cathode-driven, and cathode-follower.

The articles were a pair written by Bill Orr, W6SAI, in QST in the late 1960's or early 1970's. I think the first article was about conventional cathode driven operation, while the second was about semi-cathode driven and super-cathode driven operation. These articles were reprinted by Eimac/Varian as one of their technical bulletins. There was to have been a third article on some unusual designs (Class C LINEAR operation and such), but this article seems to have never been published. I have the QST's somewhere (!) as well as the Eimac reprint and will provide photocopies if someone really needs them. These are excellent articles about how cathode driven amplifiers really work - but they are NOT cookbook construction articles (or even cookbook in the broader sense of the Radiotron handbooks). The second article on semi- and super-cathode driven operation takes a pretty good understanding of vacuum tube theory before it makes sense. [Think about the circuits having internal negative feedback.]

For an old, but excellent reference, the "Inverted Ultra-Audion" written about in the 1930's is a classic. Cathode driven operation is also discussed deeply by Pappenfus, Bruene, and Schoenike (Collins' engineers) in their "Single Sideband Principles and Circuits" - one of the best books

ever written on vacuum tube SSB [<gloat> my copy should arrive in a few days].

Bob's questions are closely related to those about 4-1000 amplifiers also posted recently. Many high-mu tetrodes and pentodes may be operated as low-mu triodes by tying the grid and screen together. The resulting tube is usually suitable for cathode driven operation and with many tubes no grid bias is needed; also the tube has an unusually low value of idling current. Some typical tubes are the 813, 4E27, 4-125, 4-250, 4-400, and 4-1000. Tubes like the 4X150, 4CX250, 4CX350 are generally NOT suitable without a number of precautions.

The 4-1000 is a great tube because of its kilowatt plate dissipation, its rugged construction, and its "forgiving" nature during overloads. However it requires some special considerations. The driving impedance of a cathode-driven 3-1000 is close to 50 ohms, but a cathode driven 4-1000 will present an input impedance from 110 to 140 ohms depending on the voltages used. To drive it to full output, you need a little more than most sweep-tube or 6146 final rigs put out. The new rice-boxes are also underpowered for driving a 4-1000. By providing DC screen voltage on the 4-1000 but keeping the screen at AC ground by proper bypass capacitors, you can decrease the drive requirements slightly. For decent efficiency with the 4-1000, high plate voltages are needed. 2500 to 3000 volts, common with the zero-bias triodes like 3-500's and 3-1000, is just not enough with a 4-1000. You really need 4000 volts at a minimum. 4500 to 5000 volts may even be better. Drive power is reduced, efficiency is increased, and power output increases.

But there is a cost. Staying within the legal limits of power will mean that as the plate voltage goes up, the maximum plate current must go down. This means that the plate impedance goes up. If you use a pi-network output, you will find that the tube's output capacitance is already too high for a decent Q on 10 meters. Adding the minimum capacitance of a variable capacitor only makes things worse. This is the reason for the popularity of vacuum variables in many 4-1000 designs. These vacuum variable capacitors can achieve very small minimum capacitances. Big air variables cannot.

You can do several things but none are a perfect cure. The first is to accept that while a Q of 10 to 15 is fine on the lower bands, you must live with a Q of 20 to 30 on ten meters. This means high circulating currents and considerably lower efficiency on 10 meters. Another approach is to use the tube's output capacitance with an inductance in an L-network to drop the impedance down to a lower level before going to the regular pi-network. [This is NOT the pi-L network used for enhanced harmonic suppression and better component spreads.] Finally a tapped capacitance approach may be used. These last two options are fine for a single band amplifier but become extremely difficult in a multiband circuit.

One final note... ALL cathode-driven amplifiers SHOULD HAVE an input tuned circuit. In many cases you can get away without one but you often find the amplifier is unstable on certain bands and that excessive current flows through the exciter output [think of it as a series circuit]. The first article by Bill Orr mentioned above goes into this a little. I have some other Eimac literature on this in my collection too.

I will look for the dates these articles were published in QST tonight. If anyone has specific questions, send them to me at the address below - not at the address the listserv generates.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: Cathode-Driven Amplifiers, correction and bibliography.
Message-ID: <Pine.ULT.3.91.960816110304.28545B-1000000@dua150.kpt.emn.com>

In my earlier post about cathode driven amplifiers, please correct the following statement:

> Many high-mu tetrodes and pentodes may be operated as
> low-mu triodes by tying the grid and screen together.

Change this to:

Many power tetrodes and pentode with the appropriate grid structure may be operated as HIGH-mu triodes by connecting the screen (and suppressor) grid to the control grid.

The problem with the small external anode tubes like the 4X150, 4CX250, etc. is that their grid structure is very fragile and will draw excessive current and be destroyed if operated with zero bias. With proper attention to bias and drive levels, these tubes make excellent cathode driven amplifiers.

On the 4-1000, I ran across a note from Eimac that said the 4-1000 MUST be operated above 3 KV for grounded-grid operation.

On tuned input circuits versus untuned circuits, it should be noted that a tuned input will increase the power output several percent while simultaneously reducing the drive. In addition, the tuned input circuit will reduce the tube distortion about 3 to 4 dB on 3rd order IMD and 5 to 6 dB on 5th order IMD.

Finally here is a brief bibliography that may be helpful. The two

articles marked with an asterisk are the ones I was thinking about in my earlier post.

Romander, "The Inverted Ultra-Audion Amplifier", QST, Sept. 1933.

Pappenfus, Bruene, and Schoenike, "Single Sideband Principles and Practice", McGraw-Hill, 1964.

Strong, "The Inverted Amplifier", Electrical Communication, V. 19 #3, 1941.

Muller, "Cathode Excited Linear Amplifiers", Electrical Communications, Vol. 23, Sept. 1946.

EIMAC, "The Care and Feeding of Power Grid Tubes", Ap. Bul. 13, Varian Assoc.

"The Grounded Grid Linear Amplifier", QST, August 1961.

"Intermodulation Distortion in Linear Amplifiers", QST, Sept. 1963.

Starner, "The Grounded Grid Amplifier", Transmitter Engr. Dept., Engr. Prod. Div., Radio Corp. of America.

* Orr and Sayer, "The Cathode-Driven Amplifier", QST, June 1967.

* Orr and Sayer, "Semi- and Super-Cathode Driven Amplifiers", QST, July 1967.

Kleber, "The 4-1000A in Grounded-Grid", QST, July 1963.

Orr, "Radio Handbook", Editors & Engineers, various editions.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Scott Robinson <spr@earthlink.net>
Subject: Cleaning metal objects
Message-ID: <32152BA2.1DA2@earthlink.net>

A couple of years ago, someone did a very nice piece of research and published it in Antique Radio Classified.

To make a long story short, he took galvanized electrical outlet box covers and cleaned them with various household cleaners of the kinds discussed here recently. He then aged them for a month in an

environmental chamber at high temperature and humidity.

Th key result is that YOU MUST THOROUGHLY RINSE WITH WATER AS THE LAST STEP. Distilled water is even better. The corrosion resulting from leaving traces of chemically actives cleaning solutions on the metal was quite apparent.

Don't trade today's dust problem for next month's hard-to-fix corrosion!

I think I can dig up the article and make some copies if anyone is interested.

Regards...and don't be TOO clean!

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: john <johnmb@mindspring.com>
Subject: Cleaning methods
Message-ID: <2.2.16.19960816182058.227f74a2@pop.ral.mindspring.com>

In answer to some inquiries about chassis cleaning, I offer the following:

- * Sweep out dust/dirt with dry flux brushes/Paint brushes
- * with a 1" natural bristle paint brush trimmed to half its length and daubed in lanolin based hand cleaner, scrub sections of chassis / transformers etc etc (most anything but NOT dials or meters!) working the hand cleaner into nooks/crannies etc.
- * remove cleaner residue with dry rags. Cut little pieces into squares and daub into corners, while clamped with hemostats, etc... remove all loosened grease,dirt, cleaner residue.
- * carefully spray chassis sections with Windex and wipe with dry cloths to remove cleaner residue.

Note that the hand cleaner worked in with the paintbrush works well in cleaning wrinkle finishes.

ALWAYS test on an inconspicuous part of whatever you're working on, but lanolin based creme hand cleaner seems VERY gentle to finshes, while removing all manner of gunk.

I'd admonish to NEVER try to clean any dial or painted glass surface. Never

Never Never! :-) It's not worth risking ruining an un-repairable part of a fine BA. Enjoy the "patina" that your BA has earned over the years...

Most of all, take your time, and enjoy the process!

/John

```
+-----+
|John Brewer johnmb@mindspring.com           |
|WB50AU/4                      AMI #24        |
|Vintage Gear web page: http://www.mindspring.com/~johnmb/ |
+-----+
```

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: n5off@w5ddl.aara.org
Subject: Collins 618M-1 Tuning?
Message-ID: <442101@w5ddl.aara.org>

Can someone confirm for me that the 618M-1 VHF transceiver is tuned by switch closures (and not that new fangled serial communication)?

Does it have a mechanical autopositioner in it, or is it a later, more modern switching scheme?

Any ramblings of info appreciated :-)

73 de tom

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: wj5j@juno.com (John D Hensley)
Subject: Compactron tube wanted: 6D10 & socket
Message-ID: <19960815.234411.4839.5.wj5j@juno.com>

Looking for two or three 6D10 compactron tubes for handbook project. Could also use a socket. Please contact me if you can make same available.

73, Doug

***** WJ5J / NNN0BXX *****
WTF: Nat'l rack spkr, xcal or nbfm module; KS1 p.s. for KL1
Needed: P26 p.s. for HA2/6, skirt knob for SR150, lotto win

***** wj5j @ juno.com *****

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: Larry Keith <KQ4BY@IX.NETCOM.COM>
Subject: Correspond with G3URR?
Message-ID: <32136019.7477@IX.NETCOM.COM>

In private e-mail to me, G3URR asked:

> Do you know any Stateside BA enthusiasts who would
> want to correspond with likeminded British enthusiasts? We
> may have information or gear that complements your
> collections, particularly on the military side as lots of
> gear was dumped here after the Second World War.
>
> Let me know if you hear of anyone who might be
> interested in exchanging knowledge, documentation, gear or
> whatever. Many thanks.
>
> 73,
>
> Dave, G3UUR.

His e-mail address is: esdgs@eng.warwick.ac.uk

I have given him the subscription info.. But, if anyone wishes to
contact him direct while that process is going on, please do so..

73,

Larry, KQ4BY

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: "Paul Bock" <pauboc@smtplink.pulse.com>
Subject: Re: Correspond with G3URR?
Message-ID: <9607158401.AA840157426@smtplink.pulse.com>

Larry, KQ4BY sez:

>In private e-mail to me, G3URR asked:

> Do you know any Stateside BA
enthusiasts who would > want to correspond
with likeminded British enthusiasts?

<snip>

> Dave, G3UUR.

>His e-mail address is: esdgs@eng.warwick.ac.uk

All,

I recommend linking up with David; I knew him back in the early -80s and we've just gotten reconnected. Great guy, and an expert on "top band" (i.e., 160m) and *serious* contest receiver requirements. If his BA knowledge is a fraction of what he knows about these two subjects, he'll be a great addition to the list.

73,

Paul, K4MSG

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996

From: dt@artscience.scotborders.co.uk (David Topham - Arts & Science)

Subject: Re: Correspond with G3UUR?

Message-ID: <199608160504.HAA15788@sun.scotborders.co.uk>

>Larry, KQ4BY sez:

>

>>In private e-mail to me, G3URR asked:

>

>> Do you know any Stateside BA
>enthusiasts who would > want to correspond
>with likeminded British enthusiasts?

>

><snip>

>

>> Dave, G3UUR.

>

>>His e-mail address is: esdgs@eng.warwick.ac.uk

Paul Bock says:

>All,

>

>I recommend linking up with David; I knew him back in the early -80s and we've
>just gotten reconnected. Great guy, and an expert on "top band" (i.e., 160m)
>and *serious* contest receiver requirements. If his BA knowledge is a

fraction

>of what he knows about these two subjects, he'll be a great addition to the
>list.

I say:

I have known David since the late 60's. At which time he indiscriminately
called my BA stuff junk. Is it possible he can have enjoyed such radical
enlightenment? :-)

73, David Topham GM3WKB dt@artscience.scotborders.co.uk

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: dt@artscience.scotborders.co.uk (David Topham - Arts & Science)
Subject: Re: Correspond with G3UUR?
Message-ID: <199608161437.QAA29578@sun.scotborders.co.uk>

Friends! Beware!

I just received this from G3UUR!

>Dave,
> I was somewhat surprised to get a reply from you in
>amongst all our colonial friends.... I don't recall the
>occasion when I called your collection junk, but if it is
>all British military hardware of WWII vintage then there
>are probably many ex-servicemen who would echo my sentiments!!
> The poor buggers had to operate the junk when their lives
>depended on it. ^^^^^^^^^

^
^^^
^
^

Something about leopards not changing their spots springs to mind... :-)

Andy Howard said to me:

>It is never too late for repentance and enlightenment.

But, to be sure, there should be some sort of test of faith - an inquisition...

Cheers, David Topham GM3WKB dt@artscience.scotborders.co.uk

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: "Jim Berry" <basalop@eskimo.com>
Subject: Couple more forsales
Message-ID: <199608161839.LAA19897@mail.eskimo.com>

Hi Folks,

He is a couple more I spotted. Again, contact these people if there is something you might be interested in.

73 Jim K7SLI

>From : KF9E
Title : NATIONAL RECEIVERS RCE/183/300/303
HELLO AND THANKS FOR READING THIS. I HAVE 6 NATIONAL RECEIVERS, SOME
SPEAKERS
AND CALIBRATORS THAT I NEED TO SELL. I HAVE TOO MANY RADIOS (300 +)
AND NEED
TO PARE DOWN. THESE RADIOS WOULD HAVE TO BE PICKED UP IN NORTHERN
ILLINOIS, I
DO NOT WISH TO SEPARATE OR SHIP. IF INTERESTED IN THE PACKAGE, WRITE
TO LARRY
MC GEE 12728 WILLIAMS ROAD GENOA, IL 60135. 73'S

I HAVE THREE (3) DEFOREST TRAINING MANUALS THAT COVER ALL ASPECTS OF
TROUBLE-
SHOOTING TUBE TYPE RADIOS. ALL MANUALS WERE WRITTEN IN THE 40'S AND
ARE IN VERY

GOOD CONDITION. NO TORN PAGES OR BENT CORNERS. WILL TRADE FOR
ANYTHING OF
EQUAL VALUE. 805-526-4956. DE DON, W6BDD IN SIMI VALLEY, CA.

Jim Berry K7SLI. QTH: Marysville, Wa (Near Seattle)
Email: basalop@eskimo.com FAX: 360-659-1360
Ham Digital: K7SLI @ K7SLI.#NWWA.WA.USA.NA

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996

From: Lrware@aol.com
Subject: Crazy Larry's updated Shelby want list...
Message-ID: <960815214958_457623128@emout09.mail.aol.com>

Hello folks, anyone planning to make the trip to Shelby NC for the upcoming hamfest and is looking to part with any of this list should e-mail me. Perhaps we can make a deal and arrange pick-up during the hamfest.

Larry's (I have cash! Honest!) want list:

Working R-390A, (might have a line on this, but still looking.)
Any condition National RAO-X
Any interesting VLF, LF receivers, RBL-X, etc.
Yaesu FRG-7000.
Drake SW8 portable or similar...
Any Tek 7000 equipment, including test fixtures.
7L5, 7L14, 7L18, or 7L20.
Any Tek TM500 series equipment, TM504, PG506, TG501, SG503.
HP 10544A oven time base, working or not.
Any strange, unique, wonderful, weird, odd test equipment, (old or new.)

(sorry Jack, I know, I'm a heathen, but I use it to fix real BA's!)

If you are ready to part with any of the above... Lets talk.

Crazy Larry's Home for Wayward Test Equipment & Old Radios (tm)
Let your equipment retire in sunny Florida, with all the other old Farts. Intensive Care, Private Bench Space, Good Home Guaranteed or double your junk back!

-Larry Ware
lrware@aol.com

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Terry Gaiser <gaiser@lightspeed.net>
Subject: Dentron MLA-2500B FS
Message-ID: <3214D145.4AC8@bak2.lightspeed.net>

Amp has a few scratches on the top cover otherwise very nice condition with brand new pair of finals. \$ 725.00 shipped.
Thanks,
Terry - N6UR 805-366-2211

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>
Subject: Does Anyone Have "Hints & Kinks" Vol. VIII
Message-ID: <Pine.SV4.3.91.960816144327.7351A@mesa5.mesa.colorado.edu>

I am trying to get a photocopy of pages 21 and 22 from Vol. VIII of
"Hints and Kinks for the Radio Amateur." The article deals with noise
blankers. I will be glad to pay the cost of photocopying and mailing.

Thanks.

Jim W0KSD

James P. Rybak
314 Quail Drive
Grand Junction, CO 81503

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: john <johnmb@mindspring.com>
Subject: Re: Does Anyone Have "Hints & Kinks" Vol. VIII
Message-ID: <2.2.16.19960816192520.3f1f65ac@pop.ral.mindspring.com>

At 03:47 PM 8/16/96 -0500, you wrote:

>I am trying to get a photocopy of pages 21 and 22 from Vol. VIII of
>"Hints and Kinks for the Radio Amateur."

Be glad to copy it for you, or scan it and put it on the web
for you to fetch. Your preference!
/John

```
+-----+
|John Brewer johnmb@mindspring.com      |
|WB50AU/4          AMI #24              |
|Vintage Gear web page: http://www.mindspring.com/~johnmb/ |
+-----+
```

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: mack@mails.imed.com
Subject: Dues?
Message-ID: <9607168402.AA840228663@mails.imed.com>

As I've said a time or 3: "great minds think alike". Like Al, I was
wondering just last night while looking for tubes for Ben if it was
time for dues again? When are they due Jack?

Ray Mack
WD5IFS
mack@mails.imed.com

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: wb6zwc@ns.net
Subject: Filters
Message-ID: <199608161659.JAA29051@tomcat.ns.net>

t 08:29 AM 8/16/96 -0500, you wrote:

>I posted a wtb: for a 500hz filter and got this attached Email from
>someone. I called Ben Piller and he had the filter which was shipped to me
>2nd day ups.

>

>

>CALL BEN PILLER AT 303 622-4407

>VERY RELIABLE SOURCE FOR ALL GRAY AND BLACK COLLINS RADIOS

>AND PARTS . BEST TO CALL 7-10 COLORADO TIME

>

>-----

Well, I called Ben Piller on the hunt for stuff that I need. Did not get what I wanted but told Ben that I would post the following.

BTW, he is not a bussiness; just another ham doing what we do!

For Sale: F455 J2.0 (yes 2.0)
F455 J4.0
F455 J2.1
F455 J3.1
F455 J6.0 *****

I have a feeling these will cost just as much as certaing mating plugs for the 75A4.

=====

Wanted 312-B3
Richard@Sacramento,Ca.

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Lrware@aol.com
Subject: FS B&K 747 tube tester
Message-ID: <960816204554_503201811@emout13.mail.aol.com>

Good Evening firebottle fans,

Once more I offer for sale one B&K 747B Dynamic Mutual Conductance tube tester. This unit is in POOR working condition. Could be great parts unit if you already have one, or project for someone with more time than me. I have photocopies of the owners manual & service manual. And a brand new original tube settings book, (latest rev.) All were just purchased direct form B&K. Unit has a beat plastic case, and is in good shape inside. Some scratches on panel. No rust or corrosion, all sockets in good shape. The bad news is that the "push to test" buttons are pretty worn.

The manual copies and tube book set me back \$30, will accept \$40 OBO, and split the shipping.

Will also consider almost anything in trade :-)

-Larry Ware
lrware@aol.com

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: standard@pcs.mb.ca
Subject: FS tube tester, scope
Message-ID: <199608152009.PAA25696@pcs.mb.ca>

I don't like to sell on here but I found a local that has some good stuff for sale, maybe someone is interested. If so give me a call and I'll arrange.

Tek scope #465, 100mhz, dual trace, x10 probe \$400.00 US u-ship
Dyna Jet tube tester #606 \$35.00 US u-ship
IG-102 RF signal gen. Heathkit 100khz-110Mhz \$25.00 US u-ship

I'm not interested, maybe someone else is.

Gary VE4YH

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: frank_adams@onf.com (Frank Adams)
Subject: Re: FS: 75A-4 AC Plug
Message-ID: <1087438846.84005800@onf.com>

>I will sell this ORIGINAL AC PLUG FOR A 75A-4 for only \$900.00
These are very rare devices. I've never seen one for sale at any price but

I must SHARE my treasure with other A4 owners.<

WOW!! How many do you have? I will look into refinancing my house to buy a dozen right away! BTW, I also make suitable glass display cases, which I will share with my fellow hobbyists for only the cost of their materials and my labor (only \$400 each - glass extra). Offer won't last long... :-)
--- OffRoad 1.0 unregistered

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: Andy Wallace <wallace@mc.com>
Subject: Re: FS: 75A-4 AC Plug
Message-ID: <9608161136.AA03401@taku>

Please consider subscribing to A.R.C. (Antique Receptacles Classified). L*rrr* Dr*g* has the matching two-prong power socket you will need at a very reasonable price, in the latest issue, at \$2999.95.

73,
--Andy
wallace@mc.com

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: FS: 75A-4 AC Plug
Message-ID: <199608161310.IAA17698@dlep1.itg.ti.com>

At 06:37 AM 8/16/96 -0500, you wrote:

>
>Please consider subscribing to A.R.C. (Antique
>Receptacles Classified). L*rrr* Dr*g* has the matching
>two-prong power socket you will need at a very
>reasonable price, in the latest issue, at \$2999.95.

You'd think at the prices he charges, he'd at least have a storefront operation, offer warranties, offer repair service and have a no-questions-asked return policy.

I'll just bet you, Andy, that sucker's on a slow boat going overseas already

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Lrware@aol.com
Subject: FS: Lafayette "twins" HA-230 & KT-340
Message-ID: <960816204556_503201831@emout14.mail.aol.com>

Good evening folks....
Tonight as I plan my trip to Shelby for the hamfest I have
decided to tearfully part with, (dump on somebody :-) an
interesting pair of Lafayette communications receivers.
Those of you properly equipped (meaning you always keep
your Moore's 3rd handy :-) can turn to page 70.

One model HA-230
built 1965-1966, \$89.50 new
4 bands .55-30 Mhz coverage
Filter: Q-Multiplier
Tubes: 8

This radio is in good working condition and includes the matching
speaker for it. Very minor rust, good tubes (most new),
all correct knobs, etc. good unit, about a 7 on 1-10 scale.

Also one KT-340 (kit version of above)
Does not work, but is complete and could be repaired.
Problem somewhere in the IF chain, and dial glass is
losing lettering badly. Good parts spare or repair project.
All tubes good, knobs correct, etc.

These "Twins" could be available for P/U at Shelby if your going.
Asking price for the pair is \$90...
Will throw in a manual for the KT-340 (photocopy). this
is the manual to have as it includes all alinement data, etc.

OK folks, somebody out there must want these wonderful
twins. If it will make you happy we can call them rare and unique
examples from the Allied Catalog and I'll be happy to charge
you \$1999.99 each for them... :-)

-Larry Ware
Orlando, FL

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: Michael Crestohl <mc@shore.net>
Subject: FS: OS8B/U scope \$25.00 plus UPS.....
Message-ID: <199608161419.KAA13345@northshore.shore.net>

This is a nice Navy o'scope good for audio and modulation monitoring.
Anyone interested?

73,

Michael Crestohl, KH6KD/W1
mc@shore.net

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: FS: RME 4350A
Message-ID: <Pine.GS0.3.93.960816150357.1842A-1000000@iglou2>

Finally got the model number right. This one is a 9 with just some minor scratches on the top of the cabinet. The front looks beautiful and everything is original with no mods. This is one of the prettiest ba receivers ever made. This receiver was made by RME, a division of Electrovoice, around 1957. It covers 160 through 10 meters, ham bands only. The huge, half moon dial had a smooth turning, chrome 70:1 ratio knob in the lower center. This one is a collectors item and needs a good home. Everything works fine too.

\$275 OBO and I'll ship CONUS.
502-581-3890 work
502-935-7848 home

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Robert Nickels <ranickel@mwci.net>
Subject: GC Electronics
Message-ID: <32151BF9.4205@mwci.net>

James Ryback asked:

"Is GC Electronics still in Rockford, Ill?"

Yes, known as GC Thorsen Inc., 1801 Morgan St. Rockford IL 61102

and a phone number of (815) 968-9661.

More helpful may be Jay-Tronics, a local distributor who carries GC products and may be willing to ship. They're at 124 N. Rockton, Rockford IL 61103 (815) 965-8786. While not a BA haunt, they do have a variety of goodies like blue hammertone spray paint and TV picture tube brighteners still hanging on the pegboard! And more practical items like bristol wrench sets for those pesky Collins setscrews!

Don't know if they will ship or not, it's only 20 minutes away from me.

73, Bob KE0T
ranickel@mwci.net

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: "Jim Berry" <basalop@eskimo.com>
Subject: Gear that is forsale I spotted
Message-ID: <199608161827.LAA16107@mail.eskimo.com>

This is some "forsale stuff" I snagged off the ham packet network. If any of this is of any interest to BA fans give these folks a call.

73 Jim K7SLI

I have the Heath HW16 CW rig with matching HG10B VFO. All with manuals for \$90. You pay shipping. Call Rich in Dundee, Florida at 941-439-7921

Title : "VINTAGE EQUIPMENT"
Hello again! most of the "STUFF" has been sold(the wife is now talking to me!!!) I've still got the NC183, for \$200.00. the Military GRC/109 2mc/24mc cw rig for \$150.00 also there are KEYERS, T/R sw, and misc , CLEANING OUT EVERYTHING!!! call anytime
JOE (561)
220-7362 Palm City Fla. thanks!

HELLOA NAD THANKS FOR READING THIS. I HAVE AN ENTIRE COLLECTION OF EF JOHNSON XMTRS/ VFO'S/ ETC. TO OFFER AS ON PACKAGE. I WILL NOT SEPARATE AND ALL WOULD H

HAVE TO BE PICKED UP IN NORTHERN ILLINOIS. INCLUDED IS AT LEAST ONE
OF THE
FOLLOWING: CHALLENGER, VIKING I, VIKING II, VIKING II CDC,
THUNDERBOLT, RANGER,
RANGER II, PACEMAKER, VALIANT, VALIANT II, PACEMAKER, INVADER 200,
INVADER 2000
PHONE PATCH, TR SWITCH. IF INTERESTED IN THIS INSTANT COLLECTION,
WRITE TO
LARRY MC GEE 12728 WILLIAMS ROAD GENOA, IL 60135. 73'S

Jim Berry K7SLI. QTH: Marysville, Wa (Near Seattle)
Email: basalop@eskimo.com FAX: 360-659-1360
Ham Digital: K7SLI @ K7SLI.#NWWA.WA.USA.NA

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: k7yha@juno.com (Richard H. Arland)
Subject: Hallicrafters HT-1E & HT-2A "Village Radios"
Message-ID: <19960817.012936.4447.1.k7yha@juno.com>

Gang:

I have located a very limited supply of these two rigs designed for SF
use in Nam. They are LARGE handheld VHF low band (HT-1E) and dual band
Hi//Lo VHF (HT-2A) rigs that were manufactured from about 1965 or 67.
They are 1/2 watt output on 30-40 MHz (HT-1E, although the ad says 27 to
50 MHz) and 30-40 & 115 -135 MHz (HT-2A). Mode is AM, with ANL, squelch,
12 volt psu (8 D0-cells) and/or external 12VDC. Whip antenna and
external antenna connector. They are in aluminum cases that seal very
well with o-rings....I honestly think that you could dunk one of these
rigs and still use it.

Price for the HT-1E is \$18 plus UPS

Price for the HT-2A is \$25 plus UPS

I have ordere a set of rocks from Jan Xtals and they run \$15/ea (\$30 for
a set) for 28.4 MHz. Another set is on order for 50.4 MHz although I am
not sure that these rigs will go all the way up to 6 meters without some
serious optimizing. The whip is about 1/4 wavelength on 6 (way short for
10 meters) therefore 6 would be the ideal choice of bands based upon
antenna efficiency.

>From the looks of these rigs (I got my two HT-1Es yesterday) there is
plenty of room inside to add a second set of xtals and diode switch them
from the top panel (after removing the "DESTRUCT" switch....yep, a
distruct switch....nice touch, huh?)

Source:
KAL-TECH Electronics
200 SW 20th St.
Ft. Lauderdale, FL 33315

Tel: (305) 522-5811

Now, the old cogger that runs this place may suffer brain lock when you ask him about the HT-2As, but as of Tuesday, they had about 20 left. There are about 100 of the HT-1Es left. Just be patient and work with the old dude. They DO NOT take Visa or MC. Checks or MOs are FB and they will also ship via UPS COD.

73 es good luck.

Rich K7YHA

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: Re: HAPPY BIRTHDAY TO US
Message-ID: <m0urXtx-001NgxC@spider.lloyd.com>

At 09:05 AM 8/15/96 -0500, klaudon@pica.army.mil wrote:
>I've always considered myself one of the charter members of this list,
>even if my address does not appear on the original "list", because
>I was definitely sub'ed the same day that it was created!
>
>Humph! :)

Ahhh, I think I have some insight as to what happened here....

There were two announcement messages that I sent out waaaaay back then.

The first one, the one that Nick sends out annually, is *the* first BA message and was just a private announcement directed to those of us who had informally been discussing 100 lb Heath transmitters for a week or two. By creating an alias on acidqueen that we could all use, it would save typing in all those arcane addresses.

However, the second announcement is the one that all other early subscribers saw. I posted that to one of the rec.radio.* newsgroups and if memory serves, it was two or three days later that I did this.

--->>> Anyone have a copy of that original Usenet posting? I'd appreciate having a copy here at Radio Free Pollock Pines if any olde timers saved it.

>From time to time I see comments here about how useful this list has become and I sometimes hear BA mentioned favorably on the air when I'm just SWLing. It's more than a bit humbling to see/hear these comments and I thank all who appreciate BA and take the time to express their appreciation for its creation.

These days, BA simply would not exist as the pure forum that it is for old radios were it not for Jack's and Phillip's tireless efforts to keep it alive. So anytime you feel grateful for its continued existence, be sure to give these two a sincere pat on the back. They deserve it.

73,

Jim - km6nk

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: Engbert Oord <engbert.oord@jet.uk>
Subject: Heathkit AJ-31 FM tuner
Message-ID: <9608160913.AA26624@jet.uk>

Good morning BAers

I would like to thank all those who responded to my request for info on this FM tuner. It appears that nobody seems to have heard of this particular model. The model everybody mentioned is the FM1.

The AJ-31 is a stereo tuner, comes in a two tone black and grey case, has a linear scale with a knob on either side. One for tuning, the other for volume.
Could the FM1 be a similar model?

Greetings

Engbert Oord , G7THB
JET Joint European Torus, Culham ,UK
Email : eo@jet.uk or engbert.oord@jet.uk

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: Bob Marsh <bmarsh@hicom.net>
Subject: Johnson 250-39 T/R Switch
Message-ID: <3214559E.7DD7@hicom.net>

Hi Everyone,

I'm looking for a T/R switch for a Viking Challenger. The manual shows the 250-39 (Johnson), but I suppose any functional switch will work. If anyone has one available, please contact me via E-Mail.

I'm also considering a footswitch operated relay as an alternative. Is this OK to use? What I had in mind is a simple DPDT relay to switch the antenna from the receiver to the transmitter. I would appreciate any feedback on this (hairbrained?!?) idea. Since I prefer a foot switch anyway, it seems to be a good (and cheap) way to go.

Thanks to help from several members of the group, I finished the variac project and used it to start up the Challenger. I think I did it correctly, anyway. I turned on the rig, and brought up the voltage level to 50 - 75V and left it there for a few minutes. then I brought it up to 100V and finally to 120V.

I was able to load it up, but not to the meter readings specified in the manual. (the plate current dip was either higher or lower than 215ma, depending on the "coarse" loading control setting. It's possible (likely, even) that I'm doing something wrong here. My only other experience with tubes is from a TS-520S that was my first rig.

I also noticed that the transmitted CW tone starts a little high and drops down. It doesn't come in sharp like it should. I was running it into a dummy load and listening on another receiver. I suspect the Cap in the CW waveform circuit, but I'm open to suggestions. I'm also going to try and neutralize the finals as soon as I get the VFO I'm waiting for. (don't have any 15m Xtals).

Thanks for all the help.

73 de Bob/KB2SGM
<bmarsh@hicom.net>

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: "Paul Fischer" <PFF@bfs.uwm.edu>
Subject: KWM2-A S-Meter
Message-ID: <27A0CA5622@bfs.uwm.edu>

Hi BAers,

When in receive mode the s-meter on my kwm2-a is not very accurate. When a signal is coming s-9 on my kenwood it will barely move the meter on my kwm2-a. Any ideas what this might be cause from(besides age)? BTW the metr mode switch is set to alc while this

is happening. Thanks.

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: lkayser@rideau.net (Larry Kayser)
Subject: More options on the 4-1000
Message-ID: <199608170055.UAA13936@mail.peterboro.net>

Barry L. Ornitz WA4VZQ ornitz@eastman.com wrote about the 4-1000.....

"You can do several things but none are a perfect cure. The first is to accept that while a Q of 10 to 15 is fine on the lower bands, you must live with a Q of 20 to 30 on ten meters. This means high circulating currents and considerably lower efficiency on 10 meters. Another approach is to use the tube's output capacitance with an inductance in an L-network to drop the impedance down to a lower level before going to the regular pi-network. [This is NOT the pi-L network used for enhanced harmonic suppression and better component spreads.] Finally a tapped capacitance approach may be used. These last two options are fine for a single band amplifier but become extremely difficult in a multiband circuit. "

He later wrote more learnedly clarifying his input. There are however options not included in this material.

First, the PI network is hardly an appropriate design at a Q of 15 or greater, there are other options. A simple COIL with a shorted turn to adjust resonance is highly appropriate and works VERY well. I had a pair of 4-1000's on six meters many years ago and they just purred with 4KV+ and a super simple 4 turn coil made of 3/8 inch copper tubing, link coupling, and tuning with a shorted turn loop. Many home brew amplifiers are not used on more than one or two bands so the 160 to 10 meter bandswitching paradigm is not critical to success.

I have achieved SSB efficiencies of 60% on 6 meters with two tubes, excellent linearity etc. A key issue is to dump the PI network when it is not appropriate, lousy efficiency is as good a reason as any to dump the use of this form of circuit.

Larry
va3lk / wa3zia

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: n5off@w5ddl.aara.org
Subject: Moto for Collins 390
Message-ID: <441360@w5ddl.aara.org>

Here is what I have on 390 contracts. There was a "new" contract discovery contributed this week.

The s.n.'s shown are the highest contributed by a BA'er.

R-390			
Collins	1951	14214-PH-51-93	4952
Collins	1951	14226-PH-51-93	166
Motorola made for Collins Radio	1951	14214-PH-51-93	4864
Motorola made for Collins Radio	1951	14241-PH-51-93	3449
Motorola	1952	90-PH-52	82
Motorola	1952	26579-PH-52	892
			14405

Reply to:
packet n5off@k5arh.#1ft.la.usa.noam
Email (home) n5off%w5ddl.aara.org@usl.edu
Lafayette, LA
office 318-989-3430
home 318-984-2561

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: "Mark S. Hovda" <75301.3141@CompuServe.COM>
Subject: Need DX-20 Manual
Message-ID: <960816013157_75301.3141_GHI149-1@CompuServe.COM>

I picked up a DX-20 at the Cedar Rapids fest. It has been modified so I need the manual to get it back to its original configuration and on the air. An original or copy would be great. Will pay copying charges.

Thanks,

Mark

N0JWI

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: Hans Jense <jense@eos.arc.nasa.gov>
Subject: Need help with dust and rust removal
Message-ID: <199608161809.LAA06632@eos.arc.nasa.gov>

This weekend I'm going to start cleaning up my newly acquired Hammalund SP. First I'll have to get rid of the dust, which is easy. I'm planning to tackle the front panel with Clorox Pro 409, recently recommended on this list, but what should I use

on the chassis, IF cans, xformers, etc. I've seen stuff called WD40 and Scotts
Wrinkle Gold being mentioned, but what are they, and what should I use them on?
Any
suggestions on how to remove the (light) overall rust on the chassis? It's very
light
and almost, but not quite, comes off when I rub the surface with a dry rag.
Any help is appreciated.

-- Hans

=====

Dr. G. J. Jense
Senior Scientist, Virtual Environments

Command & Control and Simulation Division
TNO Physics and Electronics Laboratory
The Hague, The Netherlands

Currently on leave at:



Spatial Perception and Advanced Displays Lab
Human and Systems Technology Branch
Flight Management and Human Factors Division

NASA Ames Research Center
Moffett Field, CA 94035-1000
Mail Stop 262-2

Phone: (415) 604-1877
Fax: (415) 604-3729
Email: jense@eos.arc.nasa.gov

=====

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: kilgore@dev.tivoli.com (Jeff Kilgore)
Subject: Re: Need help with dust and rust removal
Message-ID: <9608161831.AA17214@wichita.tivoli.com>

>

> This weekend I'm going to start cleaning up my newly acquired Hammalund SP.
First
> I'll have to get rid of the dust, which is easy. I'm planning to tackle the
front
> panel with Clorox Pro 409, recently recommended on this list, but what should I
use
> on the chassis, IF cans, xformers, etc. I've seen stuff called WD40 and Scotts
> Wrinkle Gold being mentioned, but what are they, and what should I use them on?
Any
> suggestions on how to remove the (light) overall rust on the chassis? It's very
light
> and almost, but not quite, comes off when I rub the surface with a dry rag.
> Any help is appreciated.
>
> -- Hans
>

Hans,

I have had some success using Caig De-Oxit D-5. While intended as a contact
cleaner, it does seem to remove light rust reasonably well without doing
any damage. I haven't tried it on heavier rust; has anyone tried it for
this?

73,
Jeff Kilgore, KC1MK

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: "Benjamin D. Hall" <bdhall@ghgcorp.com>
Subject: Re: Need help with dust and rust removal
Message-ID: <321509CF.1E3D@ghgcorp.com>

Hans Jense wrote:

>
> This weekend I'm going to start cleaning up my newly acquired Hammalund SP.
First
> I'll have to get rid of the dust, which is easy. I'm planning to tackle the
front
> panel with Clorox Pro 409, recently recommended on this list, but what should I
use

Hi Hans, WATCH OUT on the front panel lettering. Pro 409 dissolved the
lettering on my SP-600-JX-17, making refinishing the front panel
necessary, ouch!

Be careful!

had rewound the 4-10MC Ant Coil. Then I said that it worked great on that band, Then I said that the s-meter only work on the 3 lower bands, then I said that

,etc,etc,etc. Well to complete your boredom of this project I finally found out that I wound the coil ok, but didn't have the pinouts correct.

By swapping two leads from the bandswitch, I finally got s-meter readings on all bands.

You say, so What.

I say Hurrah.

Dam, isn't this Fun.

At any Rate. I now have only to deal with 2 Stuck slugs on the bottom of two of the coils and I am home free. BTW, this guy has the sharpest selectivity Ive seen on a All Band rig and thats without using the crystal selectivity control at all.

When this is all over I will Thank many of you on the List for advice, manual, morale support. GEE, kind of like the Grammys.

Now that I think about that, maybe the Listowner, Jack, should do some presentations and do recognition. I happen to know that he has an unlimited expense account from us pumping 12 bucks a year to the list.

BTW, is that due again?

Your Friend Al
fritsche@msn.com

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: don merz <71333.144@CompuServe.COM>
Subject: Out 10 Days
Message-ID: <960817014358_71333.144_DHB38-3@CompuServe.COM>

I will be off the list VACATIONING for the next ten days or so.
Back the week of the 25th.
73, Don

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: "Garey Barrell, K40AH" <75025.73@CompuServe.COM>
Subject: Parasitic Suppressors
Message-ID: <960816174942_75025.73_FHD47-1@CompuServe.COM>

>A previous owner has made the 829 mod but has used 100 ohm wire wound 10
>watt cement covered square resistors with seven turns of something >smaller
than usual around them. I noticed them before I put power to it >and I know
wire wounds in this application are a no-no, but thought I >would try it before
changing them out. Bad idea!

My Viking I has a resistor 1/4" in diameter and 5/8" long, about a "1 Watt" size with 9 turns of # 16 wire. The wire is close wound, although it is tinned, not enameled, and covers the entire body of the resistor. There is enough space between turns to "sorta" see the resistor and I believe the value is either 100 or 180 ohms. EFJ part number 23.912. Not enough room to be sure of the colors!! Mine has the 4D32 in it, and is essentially original. It appears to be stable on all bands.

Just for info, my Viking II has 8 turns of # 18 tinned wire wound on a 120 ohm 1 Watt resistor. (Slightly smaller wire, one less turn, so able to see the color bands better!!) Of course that is for 6146's, but rest of the RF output network is identical to the Viking I's. EFJ part number 23.912. Hmmmmmmmm.

The Viking Valiant (none available for visual inspection, although manual photograph shows 8 turns.) EFJ part number 23.912-3. Maybe because there are three 6146's??

Ranger I, EFJ part number 23.912-3. So much for the three 6146 theory. Inspection shows 9 turns on *33K* 1 watt resistor. Obviously this one is just a coil form. Would be interesting to look at another Ranger I or Valiant I for confirmation or perhaps to find a 47K resistor on that one.!

So. My answer would be to find a 120 ohm 1 Watt resistor, wind 8-9 turns of #16-18 wire on it, and tune it up.

Hope this information is of help to you.

73, Garey - K40AH
75025.73@compuserve.com
Atlanta

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: Phantom Informer
Message-ID: <Pine.GS0.3.93.960816092354.5088H-1000000@iglou>

I posted a wtb: for a 500hz filter and got this attached Email from someone. I called Ben Piller and he had the filter which was shipped to me 2nd day ups. Very expensive buy impressive service. What I want to know is:

Who is the informer with that aol address. It almost looks like a paid advertisement! For a while I though maybe I was in the middle of a scam but it worked out great. The filter looks like a new one. Has anyone else ever heard of this Ben Piller?

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

----- Forwarded message -----

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996

From: aa4rm%amos@mathcs.emory.edu (AA4RM's)

Subject: Power Xfrmr revival?

Message-ID: <9608161600.AA02348@amos>

Well here's the deal. I replaced the mil-spec pwr. xfrmr in an AN/TIQ-2 parade-gnd PA to a Stancor P4081 after herm-seal orig. eqpt. turned to a fire-pot at end of Atlanta Hamfest satiday.

Stancor went thru next day & slugged the line fuse.

Test later showed 1 side HV shorted to gnd & disassembly proved hv short actually to electrostatic shield betw. pri. & sec.s.

Question 1

Anybody just float that shield after such a failure & let xfrmr soldier on?

Question 2

What's an Arc - er I mean a Stancor P4081? I just found it for 50 cents @ fest & put 'er in the Satiday nite & it made the amp run all day Sunday

Tks readers,

MR

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996

From: "Ray L. Mote" <rmote@rain.org>

Subject: R-390A local gain, rf gain pots?

Message-ID: <Pine.SUN.3.94.960816094124.27584A-100000@coyote.rain.org>

Anybody know if the local (af) gain and rf gain pots are linear or audio taper? Got a hunch I'll have to replace the local gain jobbie here & don't have parts lists. (Am using 1961 "-35" manual only.)

Manual also doesn't address T208 (transf in plate of first xtal osc). Do the later manuals talk about this one. (Only interested at the moment as sensitivity meets specs above 8 Mc but not below. Try 32 microvolts on the BC band *and* on 40 meters -- yecch! Both 6AK5 and

6C4 are nearing minimum transconductance, anyway.)

Wish I'd done the overall gain tests first thing, instead of waiting till last night!

73.....Ray Mote, K5FKT <rmote@rain.org> Oxnard, CA

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: R390 Power Cord
Message-ID: <199608160437.XAA17359@dlep1.itg.ti.com>

Greetings,

I finally got around to working on a more permanent power arrangement for my wayward R390 this evening. Since I didn't have a genuine original Collins (or Motorola, for that matter) power cable for the beast and since I just couldn't bring myself to mangle the wiring internal to the receiver, I began thinking of alternative ways to attach power to the existing rear panel power plug.

I'll spare the long and boring details and just say that after about 15 minutes with a grinding wheel I fashioned an octal socket into the perfect mating power socket for my R390. The thing's even keyed to prevent mismatching, thanks to a bent outer ring on my R390 plug which drove me to grind a flat spot on the mating socket. The coup de grace is that the back shell fits nicely over the socket and snaps in place! Only an original R390 power cord would be a better match. (And my chance of finding one of those is probably only slightly less than my chance of finding a genuine Tektronix power cable for my 551!)

All in all, a very good week for power cords. Yesterday I managed to get a homebrew cable for that wayward Tektronix 551 lashed together properly, so my wayward 551 is also up and fully functional, too.

Now the really good news: For a mere \$125 (just slightly more than the cost of the components alone) I'd be willing to provide other Anchorites with this type of fine cable. I know this is far less than the going rate this week for genuine Collins cables, but I'm not into this for personal gain, rather merely to provide a service at cost to Anchorites in need. ;-) ;-) ;-)

Regards,
Bill Sorsby, N5BU bill.sorsby@dlep1.itg.ti.com

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: Dave Metz <metzd@cfw.com>
Subject: Re: R390A in cabinet spotted
Message-ID: <2.2.32.19960816020936.0068f5b8@milo.cfw.com>

>It's a shame that the commo displays were not really authentic. Can
>anyone explain the presence of an R-390 in the chart room? To copy
>WWV for time sigs, perhaps? Or is that a fake also?

kalman,

Having spent some time on a couple of CVA's in the early 70's (not Essex Class like the Intrepid) I feel you got it with the time. I suspect that its easier to use WWV with the stopwatch rather than using the ships Chronometers for star shots. As these need to be to the second, its bad enough to move the star shots back to a common time but if one could save the step of not using the ships chronometers and the daily gain/loss calculation. Regardless of whether it was Navy authorized, it surely makes a lot of sense having made a few sextant star shots of the stars. Also, it might have been used for a highcom monitoring station because there would always be a quartermaster of the watch there and in Radio Central, there may or may not be someone always around the black (non crypto) areas. One wouldn't want the highcom on the bridge because there is already enough tactical comms to drive one to bananas.

If nothing else, the next time I'm in NYC, I know where I am headed during the shopping hours of the rest of the family! Thanks for the post.

73's dave

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: wj5j@juno.com (John D Hensley)
Subject: R391
Message-ID: <19960815.234410.4839.0.wj5j@juno.com>

Hi Bill,

Thanks for your note. Happened to catch your post on the 391.

One application was the Collins AN/FRR-33 FSK receiving set which I am studying about now. A tall rack was equipped this way from top to bottom:

Antenna Coupler CU-286/FRR-33
Radio Receiver R-391/URR
Radio Receiver R-391/URR
Selector Control C-974/FRR-33
Receiver Control C-975/URR
Power Supply PP-629/URR

all interspersed with blank panels for cooling...

The 391's were operated manually or via servo with a choice of 8 frequency presets. A receiver selector unit (C-974/FRR-33) was fed with the 391's 455 khz IF out and converted that signal to an audio signal, processed it through an AGC network, and then fed the result back to the 391. The 391's output then fed separate FSK demods presumably tied to a comparator themselves (like the URA6) but located on another rack.

The receiver frequency presets were also matched with coupling presets by the receiver control selector. When the receiver channel was changed, the coupler preset was changed. All of this (the 391's, the coupler, the receiver control, and the power supply) were operated by a host Selector Control mechanism C-974/FRR-33 which was telephone dial based mechanically. There was also a sister control box with its dial which could be placed away from the rack on a desk for receiver control. The p.s. was at the bottom and was a 24V power supply (220V fed) for powering the system.

Receiver control seems to be limited to on, off, standby, channel, and coupler position is part of the channel function. The receiver control AGC circuitry presumably made up for any control limitations. But the Selector Control mechanism could address any of the units and I am guessing that if used unwisely could foul up the antenna presets or allow the operator to adjust for time of day changes.

The servos are visible in the receiver control box pictures and the antenna coupler but not in the R391 snap. However, the manual says that there is a "casting" attached to the mainframe which houses the servos which feed a gear which turn cams which "remember" where the presets are.

The 391's look like 390A base sets, but sport a local/remote autotune switch, an 8 channel selector switch, and locking tabs on the Khz and Mhz knobs on the front panel.

The rear panel lines up this way: ...from left to right across top:

9pin and 7 pin tube pullers are attached for use,
removalbe plate for oscillator adjustments,
SYNC xtal osc adjust
\\(top) "L" screwdriver and fluted socket wrench
(middle) Antennas: 2 pin for 125 ohm balanced
C connector for unbalanced whip

At left center is a bakelite terminal strip:
rf gain, agc nor div, local audio, phns

At right center is a bakelite terminal strip
BRK in; linie audio; diode load; gnd

Across the bottom:
fuse dc/20a, fuse ac 3a, fuse B+/3a, OVENS on/off, power socket,
remote control socket, atuotune socket , and then 3 spare fuses.

This is all I know so far on the 391.

73, Doug

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: "Benjamin D. Hall" <bdhall@ghgcorp.com>
Subject: Racal vs. the Hammar' HQ twins
Message-ID: <3213E846.262D@ghgcorp.com>

Hi folks!

Decided to put the Racal up against some of the less technologically advanced BA's in the shack.

(boxing match announcer's voice) ARE YOU READY TO RUMBLE!?!?!?!?

In the far corner, wearing the LCD display panels, weighing in at 25 pounds, the Racal RA6790/GM. In the near corner, in their first appearances, in tag team, weighing in at 45 pounds apeice, the Hammarlund HQ-140XA and the Hammarlund HQ-150.

To make this short, the H'lunds kicked the crud out of the Racal. Better audio, more resistance to fading, better selectivity, and on and on and on. And I think I know why.

The military paid big bucks for the Racal. H'lunds were sold to SWBC'ers and hams like me, who don't have military big bucks. If you had the money, government money, to buy Racal, you had money for a decent antenna farm. If you are SWBC'er or ham, your funds are limited and maybe if you are lucky, you have a small antenna farm. Therefore, since the H'lunds were designed for budget minded people like me and not cost is no object types like the govt, they are better suited to cheesy antennas like my 20 foot magnet wire kludge, and work well. The Racal, wanting to see a much better antenna, doesn't work as well on my magnet wire kludge. Therefore, the H'lunds work better.

Given a real antenna with fancy co-ax and stuff like that, who knows who would win. I'll own that antenna farm some day, I promise. Look for this thread to continue 15 years from now when I get the 'tenna farm, heh heh heh.

Thoughts?

Thanks and 73,

Ben

P.S.: The HQ-140XA and the HQ-150 make a *VERY CUTE* couple. Was that smooching I heard when I left the room? Oh no! The Hammarlund are necking behind my back!

--

From the computer of
Benjamin D. Hall, Houston Texas
BDHall@GHGCorp.com -or- BHall@GP802.JSC.NASA.gov

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: mirage!pamars@uucp-1.csn.net (P.A.Marshall)
Subject: Re: Racal vs. the Hammar' HQ twins
Message-ID: <9608161127.AA12191@mirage>

Benjamin D. Hall writes:

>

> Given a real antenna with fancy co-ax and stuff like that, who knows who
> would win. I'll own that antenna farm some day, I promise. Look for
> this thread to continue 15 years from now when I get the 'tenna farm,
> heh heh heh.

>

Very good point, I added a MFJ versatuner and you would not beleave how much I was able to improve weak signal work, with a full set of collins filters (not the cheaper xtall filters that were fitted to some (many?) of the latter units) it's a hard set to better. However it just does

not have the feel and fun of the hollow state sets.

Al Marshall "Real Radios Glow in the Dark" almarshall@acm.org
1+219.665.5072 Mirage Computers, Inc. pamars@mirage.angola.in.us

"The lyf so short, the craft so long to lerne." - Chaucer

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: "Paul Bock" <pauboc@smtplink.pulse.com>
Subject: Re[2]: Correspond with G3UUR?
Message-ID: <9607168402.AA840210052@smtplink.pulse.com>

>I have known David since the late 60's. At which time he indiscriminately
>called my BA stuff junk. Is it possible he can have enjoyed such radical
>enlightenment? :-)

>73, David Topham GM3WKB dt@artscience.scotborders.co.uk

To David #2 I can only admit that - alas! I, too, once regarded much of
the now-treasured BA gems as "junque." That's why I passed up all those ARC-5s,
Johnson Rangers, HQ-129Xs, BC-348s, *EVEN OLD (CHOKE! GASP!) VIBROPLEX BUGS,
etc. during the '60s and '70s when the stuff was dirt cheap. I'll wager that
this list contains more than a few who harbor similar guilt.....

Paul, K4MSG

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: Re: Re[2]: Correspond with G3UUR?
Message-ID: <Pine.SUN.3.91.960816110815.3749A-1000000@indy1>

On Fri, 16 Aug 1996, Paul Bock wrote:

> [...] I, too, once regarded much of the now-treasured BA gems as
> "junque." That's why I passed up all those [...good things...] during
> the '60s and '70s when the stuff was dirt cheap. I'll wager that this
> list contains more than a few who harbor similar guilt.....

Ha-ha! Not me--I was a flat broke student in the '70s; that's why I got
into boatanchors to start with! <grin> See, poverty *can* be a virtue!

Of course, if I'd *had* money, I wouldn't be buying the gear now at 10X the price and thinking it a bargain....

73,
--Bobbi

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: pmills@cyberhouse.com (Phil Mills)
Subject: Re: Re[2]: Correspond with G3UUR?
Message-ID: <199608170047.TAA17207@ns.cyberhouse.com>

Roberta and BA members,

Besides being from the "tube" generation, the availability of high quality BA's is the reason I got back into ham radio after almost a 30 year hiatus. I went to a hamfest with my brother-in-law and found a 75S-1 I could not resist for the price. Then, I was completely sucked in....got a new ticket a few months later.

Back in '58-62 time frame, the best my part time and summer work could afford was an SX-43 for a receiver, later to be replaced by a BC-348 after I decided I wanted to be on the same frequency after I switched back from a transmit mode. I did work up to a B&W 5100 transmitter, using it with the BC-348 for CW work. I remember receiving a donation of a 304TL tube and socket....but I had to trade it away to get the stuff to build a power supply to power the amplifier that I was going to build.

Now, with top of the line rice boxes going for \$5k, I don't feel quite so bad about what I had to pay (piece meal in fact) for my Collins S-line.

I think any budget conscious (nice term for broke!) ham would prefer the BA approach. For the money invested, you get more bang for the buck and a lot more fun. And, you have some hope of being able to repair any problems. If you are as big and fumble fingered as I am, having ten knobs is a heck of a lot better than one knob and two gazillion pushbuttons....

73, Phil

>

>On Fri, 16 Aug 1996, Paul Bock wrote:
>> [...] I, too, once regarded much of the now-treasured BA gems as
>> "junque." That's why I passed up all those [...good things...] during
>> the '60s and '70s when the stuff was dirt cheap. I'll wager that this
>> list contains more than a few who harbor similar guilt.....

>
> Ha-ha! Not me--I was a flat broke student in the '70s; that's why I got
>into boatanchors to start with! <grin> See, poverty *can* be a virtue!
>Of course, if I'd *had* money, I wouldn't be buying the gear now at 10X
>the price and thinking it a bargain....

>
> 73,
> --Bobbi

>
Phil Mills, AB5TH
pmills@cyberhouse.com
713-992-5762

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: standard@pcs.mb.ca
Subject: scope etc sold
Message-ID: <199608161329.IAA24625@pcs.mb.ca>

The tek scope etc was sold in 1/2 hour.

Now I think I should have bought it!

tnx

Gary VE4YH

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: "JOHN A. KING (WA1ABI)" <JAK@SUD2.ED.RAY.COM>
Subject: Semi- and Super-Driven Cathodes
Message-ID: <01I8C4LTYC9E8X539S@SUD2.ED.RAY.COM>

One of the articles that Barry O mentioned is in July, 1967
QST: "Semi- and Super-Cathode-Driven Amplifiers" by William
I. Orr, W6SAI and William H. Sayer, WA6BAN.

While you're perusing that issue, see also page 22, "The W0EPV
Squeeze Keyer" for an article that introduced a keyer "so
different... that it may change the whole concept of keying
code." (Which of course, it did!)

73,

John King WA1ABI

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Terry Gaiser <gaiser@lightspeed.net>
Subject: Signal-one CX-7B FS
Message-ID: <3214D0D3.4502@bak2.lightspeed.net>

Nice condition CX-7B with manual; \$ 900.00 shipped.
Thank You,
Terry - N6UR 805-366-2211

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: "Garey Barrell, K40AH" <75025.73@CompuServe.COM>
Subject: Stancor Transformers
Message-ID: <960816182950_75025.73_FHD24-1@CompuServe.COM>

Hi Marty!

>Well here's the deal. I replaced the mil-spec pwr. xfmr
>in an AN/TIQ-2 parade-gnd PA to a Stancor P4081 after
>herm-seal orig. eqpt. turned to a fire-pot at end of
>Atlanta Hamfest satiday.

My Stancor book shows all "Power Transformers" of the HV/filament type to be
"8000" series. No "4000" series in my book. So...

The PC-8401 is a fairly common one. Maybe??
HV = 235-0-235 V @ 40 DC mA.
fil = 5 V @ 2 A.
fil = 6 V @ 2 A.

The PC-8410 is another common one. Maybe??
HV = 360-0-360 V @ 120 DC mA.
fil = 5 V @ 3 A.
fil = 6 V @ 3.5 A.

73, Garey - K40AH
75025.73@compuserve.com
Atlanta

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: Lrware@aol.com
Subject: Strange Sweep Gen. ---> (conclusion) & FS
Message-ID: <960815215001_457623153@emout14.mail.aol.com>

Greetings firebottle fans, tonight the conclusion to our trilogy...
Without further ado...

In our last episode:
Larry posed the questions:

Anyone got a manual for this beast?
(Referring to a rather odd Precision Apparatus Series
E-400 Sweep Generator.)

A check of ye old mail-bag reveals that this kind of construction
was common long ago.

Thanks to several BA'ers who took the time to write about:
"The Strange Case of the Mechanically Modulated Sweep Generator."
Thanks also to several BA'ers have sent me manual copies...
One even matched the unit correctly... :-)

And now back to our story...

Scene 5:

Larry has subbed the filter caps that don't, a number of decoupling
caps that didn't, a couple of leaky other caps, etc.

Having ditched the dreaded Micamolds, wax drippers, etc.

He has discovered...

Stable B+ of 201V with under .3V ripple from his power supply

Output looks fair when squinting at the 7000 scope just right...

Got a decent signal on all bands, but leveled this thing is not.

Hummm, what happens if we engage the sweep?

Darn copper plate can be seen happily shaking away!

Getting some fair looking sweep/modulation on the 7000 now too.

Trim up the trim caps here and there....

And Volia!

The patient is out of the "hospital" and back into a productive life.

Ready for a good BA home...

I paid all of \$10 for this poor thing when I got it, cleaned it up some,
put some good tubes in it, repaired it's problems and now I have
one more firebottle sweep generator... Alas, more than I need... So:
The subject of this story is up for sale to a good BA home,

This rather strange Precision Apparatus Series E-400 Sweep Generator
complete with output cable, manual copy and it's wonderful copper clad
shielding, Wobblater modulation, etc. for the very boatanchor
list price of \$20, plus shipping.

-Larry Ware
lrware@aol.com

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Terry Gaiser <gaiser@lightspeed.net>
Subject: Swans FS
Message-ID: <3214D02C.5DDD@bak2.lightspeed.net>

Excellent condition Swan 350 with matching PS/SPKR; \$ 250.00 shipped.
Near mint condition Swan 500CX with matching PS/SPKR; \$ 300.00 shipped.
Thanks,
Terry - N6UR

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: mack@mails.imed.com
Subject: Tek Scope Motor mounts
Message-ID: <9607168402.AA840227763@mails.imed.com>

This is a partial information post. My forgetter works overtime, so
I'll pass this on since Stan is running low on these mounts.

Marlin P. Jones Company had catalogs at Hamcomm this year. Inside I
found a listing for rubber shock mounts that are described almost
exactly like the fan mounts in 500 series scopes. So if someone has
an address/phone number for them to share, please do. I'll *try* to
remember again on Monday to get a stock number, phone number, etc.

Ray Mack
WD5IFS
mack@mails.imed.com
Friendswood (Houston), TX

From boatanchors@theporch.com Fri Aug 16 21:27:49 1996
From: Spencer Petri <spetri@e-tex.com>
Subject: Re: Tek shock mounts
Message-ID: <m0urUE0-0002F1C@e-tex.com>

Hello BA gang,

Marvin P. Jones
P.O. Box 12685
Lake Park, FL 33403-0685

407-848-8236

I see 2 different rubber shockmounts listed on page 68, Cat 96-4. Gotta leave so can't look into my 545B to see which is correct. They have a great catalogue, this one is 118 pgs. Gotta go.

73 de Pete WA5JCI

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: Engbert Oord <engbert.oord@jet.uk>
Subject: Tektronix & Nelson Ross Electronics
Message-ID: <9608160845.AA25401@jet.uk>

Good morning BAers

Earlier this week I obtained a Tektronix scope 545A.
It came with 3 plug-in's, 2 spare brand new boxed CRT's
and very surprisingly 2 manuals. One for the scope and
one for the 1L20 spectrum analyser plug-in.
The other two plug-in's are two other spectrum analysers :
a 1L5 and a Nelson Ross Electronics Model 205.
The question is : Who is/was Nelson Ross Electronics and
have there been other suppliers of Tektronix plug-in's ?
Is Nelson Ross in anyway connected with Tektronix ?.

A question for the Tektronix guru's.
I have a model 551 as well. As two of these things take up
a lot of space, the commodity which I am running out fast,
I am contemplating getting rid of one them. Should I hang on
to the 551 or the 545A ?
My own guess would be to favour the single channel 545A above
the dual channel 551, as it has the spare CRT's and sports a
delayed time base capability.

Greetings

Engbert Oord , G7THB
JET Joint European Torus, Culham ,UK
Email : eo@jet.uk or engbert.oord@jet.uk

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: w7ni@teleport.com (Stan Griffiths)
Subject: Re: Tektronix & Nelson Ross Electronics
Message-ID: <199608160944.CAA10348@desiree.teleport.com>

>Good morning BAers

>

>Earlier this week I obtained a Tektronix scope 545A.

>It came with 3 plug-in's, 2 spare brand new boxed CRT's

>and very surprisingly 2 manuals. One for the scope and

>one for the 1L20 spectrum analyser plug-in.

>The other two plug-in's are two other spectrum analysers :

>a 1L5 and a Nelson Ross Electronics Model 205.

>The question is : Who is/was Nelson Ross Electronics and

>have there been other suppliers of Tektronix plug-in's ?

>Is Nelson Ross in anyway connected with Tektronix ?.

Nelson Ross is just a company that made spectrum analyzers that would fit early Tek scopes. I think they made other spectrum analyzers, too, that were not scope plugins. They had no connection with Tektronix.

There were three other companies that made copies of Tek scope and several different plugins. The copies were good enough that you could plug them right into a Tek scope and expect them to work. Those companies were Hickok, LaVoie, and Jetronic.

>A question for the Tektronix guru's.

>I have a model 551 as well. As two of these things take up

>a lot of space, the commodity which I am running out fast,

>I am contemplating getting rid of one them. Should I hang on

>to the 551 or the 545A ?

>My own guess would be to favour the single channel 545A above

>the dual channel 551, as it has the spare CRT's and sports a

>delayed time base capability.

I would hang onto the 545A. In addition to having a delayed sweep, it actually has 30 MHz of bandpass as compared to 25 MHz for the 551. It is also smaller since it does not have an external power supply like the 551 has.

About the only real advantage the 551 has to offer is true dual beam operation. You really need this feature when you are analyzing single shot events and you want to see the phase relationship between two different parts. One beam records one part of the data and the other beam records the other part of the data. It is particularly handy for those of us who set off backyard nuclear explosions or like to analyze lightning bolts.

Just my opinion, Engbert. Me, personally, I have three 551s and two 545s and a LARGE shop . . .

Stan w7ni@teleport.com

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: Trade for an HQ-110
Message-ID: <UPMAIL03.199608160218170050@msn.com>

Gang, got a unused UNGAR soldering/desoldering kit. Still got the original tie wraps around the iron cord. circa 1958.
Will trade for a HQ-110 in somewhat working order.
This is no S___
outside box is ragged, but the tools inside have never been tinned.
Let me Know
Al
fritsche@msn.com

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: "F r6fqHo!ht" <75121.100@CompuServe.COM>
Subject: Tube pullers
Message-ID: <960816103526_75121.100_IHV43-2@CompuServe.COM>

James Ryback wrote

<GC Electronics makes them.....

Is GC Electronics still in Rockford, Ill? If so, they could be purchased there-abouts I would expect. Any Hams in the vicinity that would know about the GC connection or see any GC stuff for sale in your local electronic shops?

Regards from Hawaii,
Raymond J. Cote

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: dlr13@psu.edu (Douglas Ripka)
Subject: tube pullers
Message-ID: <199608161410.0AA120740@r05n01.cac.psu.edu>

snip.....

Is GC Electronics still in Rockford, Ill? If so, they could be purchased there-abouts I would expect. Any Hams in the vicinity that would know about the GC connection or see any GC stuff for sale in your local electronic shops?

Regards from Hawaii,
Raymond J. Cote

Raymond and the list,

I have a recent catalog from GC Thorsen, but I don't know how recent. The address is still in Rockford. They have tube pin straighteners still listed, but no pullers. However, they used to make a puller that looked like a pair of scissors, with rubber tipped ends that were curved to fit around the body of the tube. Nowadays they call them "PC board tongs", part number 22-283. They are the same thing, as I ordered a pair for use at school, lo, they were identical to the tube pullers I got long ago.

Another example of finding new uses for old things...

73,

Doug (dlr13@psu.edu)

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: "David L. Thompson" <thompson@mindspring.com>
Subject: Re: Tube pullers
Message-ID: <199608161733.NAA07924@answerman.mindspring.com>

><GC Electronics makes them.....

>

>Is GC Electronics still in Rockford, Ill? If so, they could be purchased
>thereabouts I would expect. Any Hams in the vicinity that would know about
>the GC connection or see any GC stuff for sale in your local electronic shops?

>

>Regards from Hawaii,

>Raymond J. Cote

>

I just got a new catalog from ACK in Atlanta, GA and GC Electronics is featured. Mostly hardware and adhesives (I see several pages of STANCOR Transformers, too). They state that they have a Great selection of tubes. I talked to someone on the desk...and yes they have tube pullers..the names mentioned include PAL (paladin), GC, and Philmore. Philmore is another name I remember from my young days! Crystal and regen receivers as I remember! Not sure about stock in either Atlanta or Birmingham, but available in just a few days if not!!!!

I would expect there to be hundreds of old line firms like Ack around the US and Canada....I know that at Ack they have much of the stuff that was carried in the old Allied, Ack, or BA catalogs! They don't put it in the catalog so you need to ask!!!! You usually have to get by sticker price, however. They need to make a profit!

(Hey on page 149 there is the Simpson stuff with seven versions of the ole260)

Dave K4JRB

>

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: kilgore@dev.tivoli.com (Jeff Kilgore)
Subject: Re: Tube pullers
Message-ID: <9608161807.AA17198@wichita.tivoli.com>

> From boatanchors@theporch.com Fri Aug 16 12:59 CDT 1996
> Date: Fri, 16 Aug 1996 12:34:46 -0500 (CDT)
> Reply-To: thompson@mindspring.com
> Originator: boatanchors@theporch.com
> Sender: boatanchors@theporch.com
> From: "David L. Thompson" <thompson@mindspring.com>
>
>
> ><GC Electronics makes them.....
> >
> >Is GC Electronics still in Rockford, Ill? If so, they could be purchased
> >thereabouts I would expect. Any Hams in the vicinity that would know about
> >the GC connection or see any GC stuff for sale in your local electronic shops?
> >
> >Regards from Hawaii,
> >Raymond J. Cote
> >
>

I just picked up one of the GC tube pullers from Electronic Parts Warehouse in Austin while I was out at lunch today. My officemate also bought one, so they now have one left in stock. Maybe they'll get the idea that tubes are still kicking around out there, but then again, maybe not, since they now call it a PC board tool or something like that.

73,
Jeff Kilgore, KC1MK

From boatanchors@theporch.com Fri Aug 16 06:34:07 1996
From: "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>
Subject: Tube Pullers Available
Message-ID: <Pine.SV4.3.91.960815195757.16129A-1000000@mesa5.mesa.colorado.edu>

About two weeks ago, I posted a message that I was looking for some tube pullers (extractors). Someone recommended an excellent source. Altex Electronics in San Antonio, TX has the genuine article. They're made by GC Electronics and they're just what I was looking for. The Altex part number for them is

5092-GC TUBE AND PARTS EXTRACTOR

The price is \$5.09 but there is a \$3.00 handling charge plus shipping. Altex does not list the tube pullers in their catalog. You have to ask for them. Altex's phone number is (210) 828-0503.

DISCLAIMER: I HAVE ABSOLUTELY, POSITIVELY NO FINANCIAL OR ANY OTHER INTEREST IN ALTEX ELECTRONICS. I AM PASSING THIS INFORMATION ALONG SOLELY TO BE OF HELP TO FELLOW BA'ers.

Jim Rybak W0KSD

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: Re: VHF AM ? Where & How ?
Message-ID: <m0ur0r2-001NgtC@spider.lloyd.com>

At 04:36 AM 8/13/96 -0500, michael d. ferraro wrote:
>Shortly, I will be on 6mtr Am....Could anyone fill me in on the
>frequencies, and most importantly, what antenna polarization ! How has the
>activity been....thanks to all that reply

Mike and others with 6M AM interests.....

As Dave Hockaday responded, 50.4 is the recognized AM calling frequency; this is true nationwide. However, it also pays to monitor 50.125. This is the SSB calling frequency and is a reliable indicator of band openings.

As for antenna polarization, my suggestion would be to have both vertical and horizontal polarizations available. When I was in the SF Bay Area, all the locals I worked regularly were vertical polarized. However, when the band opens, I would want a horizontal polarized gain antenna to pick out those often-weak AM carriers.

As for activity, the reality is that 50.125 is much busier than 50.4. However, the AM frequency is as busy as we choose to make it. During this summer's E-skip season, I worked one AM station after another for an hour

and a half during a band opening one evening. So, if you want there to be activity on 50.4, my suggestion is to be there and make noise so others can hear you.

73,

Jim - km6nk

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: afpgreg@state.me.us (Paul V. Gregory)
Subject: Re: VHF AM ? Where & How ?
Message-ID: <199608161506.LAA27525@gatekeeper.ddp.state.me.us>

Ahoy,

Is there six-meter AM activity in the New York metropolitan area? I visit a coupla times a year and was wondering whether to bring rig 'n dipole down w/me.

tnx de KB1AOC, Paul
email: afpgreg@state.me.us

From boatanchors@theporch.com Fri Aug 16 13:36:21 1996
From: "Richard L. Duell" <rduell@iac.net>
Subject: Viking I Parasitic Suppressors
Message-ID: <2.2.32.19960816143236.0070d8a8@iac.net>

I'm in the process of putting a Viking I back on the air and have reached the point where I'm trying to load 'er up into the dummy load. I've got a runaway final!

A previous owner has made the 829 mod but has used 100 ohm wire wound 10 watt cement covered square resistors with seven turns of something smaller than usual around them. I noticed them before I put power to it and I know wire wounds in this application are a no-no, but thought I would try it before changing them out. Bad idea!

Here's the question...my default choice for replacement is to use 40 ohm two watt carbons with three turns of 14 or 16 ga.. The manual I have just specifies L11 as being a parasitic suppressor. Does anyone have one they can look at and tell me what resistor value and the number of turns Johnson used? As long as I'm doing it, might as well be factory.

By the way, the Greater Cincinnati ARA hamfest is this Sunday and I'll be there with a very nice Heath Pawnee on my table and who knows what else.

Hope to see some of you there.

Last thing. I have three used 810s that check good filament continuity and no inter electrode dc shorts. Can't check them in service because I don't have anything that uses them. RF Parts charges \$90 for new ones and AES is "call" for used ones. I don't know what the going price is for used ones, so will sell at highest price offered by the end of the day Tuesday 8/20.

"Don't look back. Something may be gaining on you." - Satchel Paige -